

#7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant:	Mikhail Trifonov, et al.	Examiner:	Unknown
Serial No.	09/899,503	Group Art Unit:	2621
Filed:	July 5, 2001	Docket No.	1202.014US1
Title:	FINE MOIRÉ CORRECTION IN IMAGES		

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b) or (c)**

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED
DEC 28 2001
Technology Center 2600

Dear Sir:

Applicant(s) respectfully submit(s) the items of information on the enclosed Form 1449 for the attention of the Examiner in the above-identified application.

This statement should be considered because it is either filed before the mailing date of the first Office Action on the merits or it is submitted after the mailing date of the first Office Action on the merits but before the mailing date of a final Office Action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311. No fee is due since this statement is submitted either before the mailing date of the first Office Action on the merits or is certified under 37 C.F.R. §1.97(e)(1) or (2) by the undersigned.

Certification Under 37 C.F.R. §1.97(e)

In accordance with 37 C.F.R. §1.97(c)(1), the undersigned hereby certifies that this statement is submitted wherein each item of information listed on the enclosed Form 1449 was cited in a communication from a foreign patent office in a counter part foreign application not more than three months prior to the filing of the information disclosure statement.

A copy of each document or other information listed on the enclosed Form 1449 is enclosed in accordance with 37 C.F.R. §1.98(a)(2) and/or a copy of each document is not provided because it was previously cited by or submitted to the U.S. Patent and

Trademark Office in a parent application in accordance with
37 C.F.R. §.1.98(d).

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§102 and 103. In addition, Applicant(s) do(es) not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended, and reserve the right to establish otherwise under 37 C.F.R. §1.131 or others.

Consideration of the items listed is respectfully requested. According to M.P.E.P. §609, Applicant(s) request(s) that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Authorization is hereby given to charge any additional fees or credit any overpayments that may be deemed necessary to Deposit Account Number 50-1391.

Respectfully submitted,

MIKHAIL TRIFONOV, et al.

By Their Representatives,

MARK A. LITMAN & ASSOCIATES, P.A.
York Business Center, Suite 205
3209 West 76th Street
Edina, Minnesota 55435
(952) 832-9090

Date: 13 December 2001

By: Mark A. Litman

Mark A. Litman
Reg. No. 26,390

CERTIFICATE UNDER 37 C.F.R. 1.8: The undersigned hereby certifies that this Letter is being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on 13 December 2001

Mark A. Litman
Name

Mark A. Litman
Signature

INFORMATION DISCLOSURE STATEMENT

PTO Form 1449

Docket Number
1202.014US1

Serial Number
09/899,503

Applicant(s)
Mikhail Trifonov, et al.

Filing Date
July 5, 2001

Group Art Unit
2621

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE (IF APPROPRIATE)
		2,407,211	09/03/46	J. A. C. Yule	95	5	
		2,420,636	05/13/47	J. A. C. Yule	95	5	
		2,455,849	12/07/48	J. A. C. Yule	95	5	
		3,011,395	12/05/61	K. H. Flose	88	24	
		3,615,433	10/26/71	Biernson et al.	96	27	
		4,237,481	12/02/80	Aughton	358	80	
		4,315,318	02/09/82	Kato et al.	364	515	
		4,317,179	02/23/82	Kato et al.	364	515	
		4,334,244	06/08/82	Chan et al.	358	166	
		4,336,558	06/22/82	Lew	358	285	
		4,346,409	08/24/82	Ishida et al.	358	280	
		4,571,635	02/18/86	Mahmoodi et al.	358	284	
		4,907,096	03/06/90	Stansfield et al.	358	456	
		4,926,267	05/15/90	Shu et al.	358	454	
		4,965,599	10/23/90	Roddy et al.	346	160	
		4,987,496	01/22/91	Greivenkamp, Jr.	358	448	
		5,107,188	04/21/92	Rindal	315	370	
		5,121,213	06/09/92	Nishioka	358	213.11	
		5,166,810	11/24/92	Sorimachi et al.	358	462	
		5,225,915	07/06/93	Ciccone et al.	358	454	
		5,239,390	08/24/93	Tai	358	458	
		5,253,046	10/12/93	Shiraishi	358	43	
		5,351,312	09/27/94	Sato et al.	382	50	
		5,408,337	04/18/95	Kanda	358	447	
		5,533,149	07/02/96	Kaplan et al.	382	260	
		5,563,963	10/08/96	Kaplan et al.	382	266	
		5,649,031	07/15/97	Nakamura et al.	382	254	
		5,821,915	10/13/98	Graham et al.	345	138	
		5,798,846	08/25/98	Tretter	358	456	
		6,094,018	07/25/00	Fujimori et al.	315	370	
		6,100,929	08/08/00	Ikeda et al.	348	262	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS

Examiner:

Date Considered:

DEC 26 2001

Page 2 of 2

INFORMATION DISCLOSURE STATEMENT

PTO Form 1449

Docket Number
1202.014US1Serial Number
09/899,503Applicant(s)
Mikhail Trifonov, et al.Filing Date
July 5, 2001Group Art Unit
2621

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
		EP 1 022 912 A2	07/26/00	EPO	H04N	9/04	X	
		WO 98/36555	08/20/98	PCT	H04N	1/04		X
		JP 8/149,358	06/07/96	JP - Abstract	H04N	005/232	X	
		JP 51/45,757	06/11/93	JP - Abstract	H04N	001/40	X	
		JP 10/276,331	10/13/81	JP - Abstract	H04N	001/409	X	
		JP 11/275,367	10/08/99	JP - Abstract	H04N	001/409	X	
		JP 2000/ 023,085	01/21/00	JP - Abstract	H04N	005/91	X	
		JP 1972/ 95,961	11/10/95	JP - Abstract	G06F	017/10	X	
		JP 10/003,539	01/06/98	JP - Abstract	G06T	005/20	X	

OTHER DOCUMENTS

	B. R. Frieden, "A New Restoring Algorithm for the Preferential Enhancement of Edge Gradients," <i>J. Opt. Soc. Am.</i> , Vol. 66(3), March 1976; 280-283.
	S. R. Amtey, et al., "Applications of Digital Processing in Computed Radiography," <i>SPIE</i> , Vol. 207, 1979; 210-212.
	C. R. Wilson, et al., "Low Frequency of Digital Radiographic Images," <i>SPIE</i> , Vol. 314, 1981; 327-330.
	E. Alparslan, et al., "Image Enhancement by Local Histogram Stretching," <i>IEEE</i> , Vol. SMC-11(5), May 1981; 376-385.
	J. Shou-Pyng Shu, et al., "Moiré Factors and Visibility in Scanned and Printed Halftone," <i>Optical Engineering</i> , Vol. 28(7), July 1989; 805-812.
	N. Ohya, et al., "Suppression of Moiré Fringes Due to Sampling of Halftone Screened Images," <i>Optics Communications</i> , Vol. 60(6), 15 Dec. 1986; 364-368.
	J. Ching-Yu Yang, et al., "Suppression of Moiré Patterns in Scanned Halftone Images by Double Scans with Grid Movements," <i>Pattern Recognition Letters</i> , Vol. 18, 1997; 213-227.
	K. Krause, "Tip 10: Litter Removal: Moiré Removal," http://www.pixelfoundry.com/Tips/ ; 1-6.
	X. Liu, et al., "Analysis of Moiré Patterns in Non-uniformly Sampled Halftones," <i>Image and Vision Computing</i> , Vol. 18, 2000; 843-848.
	D. P. Panda, et al., "Recursive Least Squares Smoothing of Noise in Images," <i>IEEE</i> , Vol. ASSP-25(6), December 1977; 520-524.

Examiner:

Date Considered: